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ABSTRACT

WATER SOLUBLE OR WATER DISPERSIBLE FLUOROCHEMICAL SILANES FOR RENDERING SUBSTRATES OIL AND WATER RELIENT

A water soluble or water dispersible fluorochemical silane represented by the general formula:

(I)

wherein X represents the residue of an initiator or hydrogen;

Mf represents units derived from one or more fluorinated monomer;

Mh represents units derived from one or more non-fluorinated monomer;

Ma represents units having a silyl group represented by the formula:



(II)

wherein each of Y^4,Y^5 and Y^6 independently represents an alkyl group, an aryl group or a hydrolyzable group;

G is a monovalent organic group comprising the residue of a chain transfer agent; n represents a value of 1 to 100;

m represents a value of 0 to 100;

and r represents a value of 0 to 100;

20 and n+m+r is at least 2;

with the proviso that at least one of the following conditions is fulfilled: (a) G contains a silyl group of the formula:

(III)

. . .

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wherein Y^1 , Y^2 and Y^3 each independently represents an alkyl group, an aryl group or a hydrolyzable group and at least one of Y^1 , Y^2 and Y^3 represents a hydrolyzable water solubilising group; or

(b) r is at least 1 and at least one of Y^4 , Y^5 and Y^6 represents a hydrolyzable water solubilizing group.

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